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Project Report: Photodissociation experiments elucidating the mechanism of anomalous sulfur isotope fractionation

Lyons, J.R. & Young E.D. (2004). The evolution of oxygen isotopes in the solar nebula [Abstract]. Goldschmidt Conference 2004, Copenhagen, Denmark. *Geochimica et Cosmochimica Acta*, 68(11, Supplement 1): A764.

Lyons, J.R. & Young, E.D. (2003). Self-shielding of CO in the surface of the solar nebula [Abstract]. Goldschmidt Conference 2003, Kurashiki, Japan. *Geochimica et Cosmochimica Acta*, 67(18, Supplement 1): A263.

Lyons, J.R. & Young, E.D. (2004). Evolution of oxygen isotopes in the solar nebula [Abstract]. Abstracts of Papers, 35th Lunar and Planetary Science Conference, Houston, TX. Abstract # 1970.

Lyons, J.R. & Young, E.D. (In Review, 2004). Evolution of oxygen isotopes in the solar nebula. *Nature*.

Lyons, J.R., Wing, B.A. & Farquhar, J. (2004). Broadband photolysis of SO₂: Implications for the mechanism of sulfur mass-independent fractionation [Abstract]. AbSciCon 2004, NASA Ames Research Center, Moffett Field, CA. *International Journal of Astrobiology*, Supplement 1 (March): xxx.

Lyons, J.R., Wing, B.A., Farquhar, J., Ono, S. & Rumble, D. (2003). Experimental constraints on the mechanism of S isotope mass-independent fractionation during SO₂ dissociation [Abstract]. Goldschmidt Conference 2003, Kurashiki, Japan. *Geochimica et Cosmochimica Acta*, 67(18, Supplement 1): A264.

Wing, B.A., Lyons, J.R., Farquhar, J. (2004). Experimental constraints on anomalous sulfur isotope fractionation during UV irradiation of SO₂ [Abstract]. Goldschmidt Conference 2004, Copenhagen, Denmark. *Geochimica et Cosmochimica Acta*, 68(11, Supplement 1): A781.